

Technical Datasheet

UNICRET

Mortar for rendering and masonry

Description

UNICRET is a pre-mixed mortar, offering:

- Stable quality.
- Simplified application on site (needs only water).
- Very good workability.
- Very good adhesion to the substrate.

It is certified with the CE marking as a GP CS II W0 mortar, according to EN 998-1 and according to EN 998-2, as a designed general purpose masonry mortar, for external use, in elements subject to structural requirements. Certificate number: 0906-CPR-02412008.

Fields of application

UNICRET is suitable for masonry and rendering applications. It is ideal for general repair works.

Technical data

Form:	cementitious powder
Colors:	grey, white
Pot life:	4 h at +20°C
Water demand:	4.60 l/25 kg bag

UNICRET Grey

Bulk density of dry mortar:	1.60 ± 0.10 kg/l
Bulk density of fresh mortar:	1.90 ± 0.10 kg/l
Compressive strength: (EN 1015-11)	3.20 ± 0.80 N/mm ² Category M 1
Flexural strength:	1.2 ± 0.30 N/mm ²
Initial shear strength: (tab. value)	0.15 N/mm ²
Reaction to fire: (EN 13501-1)	Class A1
Density (dry hardened mortar) (EN 1015-10):	1,700 ± 100 kg/m ³
Adhesive strength: (EN1015-12)	>0.40 N/mm ² (FP:B)

Capillary water absorption: (EN 1015-18)	W0 (1.6 kg/m ² min ^{0.5})
--	--

Thermal conductivity coefficient ($\lambda_{10,dry}$): (EN 1745, tab. mean value; P = 50 %)	0.75 W/(m·K)
---	--------------

Water-vapor diffusion coefficient (μ): (EN 1745, tab. value)	9
--	---

UNICRET White

Bulk density of dry mortar:	1.55 ± 0.10 kg/l
-----------------------------	------------------

Bulk density of fresh mortar:	1.80 ± 0.10 kg/l
-------------------------------	------------------

Compressive strength: (EN 1015-11)	2.60 ± 1.00 N/mm ² Category M 1
------------------------------------	---

Flexural strength:	1.20 ± 0.40 N/mm ²
--------------------	-------------------------------

Initial shear strength: (tab. value)	0.15 N/mm ²
--------------------------------------	------------------------

Reaction to fire: (EN 13501-1)	Class A1
--------------------------------	----------

Density (dry hardened mortar) (EN 1015-10):	1,700 ± 100 kg/m ³
---	-------------------------------

Adhesive strength: (EN 1015-12)	> 0.30 N/mm ² (FP:B)
---------------------------------	---------------------------------

Capillary water absorption: (EN 1015-18)	W0 (1.4 kg/m ² min ^{0.5})
--	--

Thermal conductivity coefficient ($\lambda_{10,dry}$): (EN 1745, tab. mean value; P = 50 %)	0.75 W/(m·K)
---	--------------

Water-vapor diffusion coefficient (μ): (EN 1745, tab. value)	9
--	---

UNICRET

Directions for use

1. Substrate preparation

The substrate must be clean, free of dust, oil, loose materials etc. and should be thoroughly dampened, before the application of UNICRET.

On difficult or very smooth surfaces we may apply a spatterdash (rough cast) first, that consists of UNICRET improved with ADIPLAST latex, diluted in the mixing water at a ratio of ADIPLAST:water = 1:3 by volume.

2. Application

UNICRET is added into water under continuous stirring, until a mixture of the required workability is formed. It is applied like ordinary render or masonry mortar.

Consumption

Approx. 15.5 kg/m²/cm of layer thickness.

Packaging

UNICRET is supplied in 25 kg bags.

Shelf-life - Storage

12 months from production date, if stored in original, unopened packaging, in places protected from moisture and frost.

Remarks

- Temperature during application should be at least +5°C.
- In hot weather, UNICRET should be moistened after application, to be protected from water loss.
- UNICRET contains cement that reacts with water forming alkaline solutions, thus is classified as irritant.
- Consult the usage risks and safety advice written on the bag.

UNICRET

UNICRET GREY CE marking according to EN 998-1


CE
ISOMAT S.A. 17 th km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios, Greece 09
EN 998-1 General purpose rendering mortar (GP) for external use DoP No.: UNICRET G /1222.1-02 Reaction to fire: Class A1 Adhesion: 0.4 N/mm ² – FP: B Water absorption: W0 Water vapor diffusion coeff.: μ 9 Thermal conductivity: (λ _{10,dry}) 0.75 W/mK Durability (against freeze/thaw): evaluation based on provisions valid in the intended place of use of the mortar

UNICRET WHITE CE marking according to EN 998-1


CE
ISOMAT S.A. 17 th km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios, Greece 09
EN 998-1 General purpose rendering mortar (GP) for external use DoP No.: UNICRET W /1221.1-02 Reaction to fire: Class A1 Adhesion: 0.3 N/mm ² – FP: B Water absorption: W0 Water vapor diffusion coeff.: μ 9 Thermal conductivity: (λ _{10,dry}) 0.75 W/mK Durability (against freeze/thaw): evaluation based on provisions valid in the intended place of use of the mortar

UNICRET

UNICRET GREY CE marking according to EN 998-2

 0906
ISOMAT S.A. 17 th km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios, Greece 12 0906-CPR-02412008
<p style="text-align: center;">EN 998-2:2010</p> <p><u>Designed</u> general purpose masonry mortar for external use in elements subject to structural requirements</p> <p style="text-align: center;">DoP No.: UNICRET G /1222.2-01</p> <p>Compressive strength: Category M 1 Initial shear strength: 0.15 N/mm² (tab. value) Reaction to fire: Class A1 Density (dry hardened mortar) 1700 kg/m³ Water absorption: 1.6 kg/m²min^{0.5} Water vapor permeability: μ 15/35 (tab. value) Thermal conductivity: (λ_{10,dry}) 0.75 W/mK (tab. mean value; P = 50 %) Durability (against freeze/thaw): evaluation based on provisions valid in the intended place of use of the mortar</p>

UNICRET WHITE CE marking according to EN 998-2

 0906
ISOMAT S.A. 17 th km Thessaloniki – Ag. Athanasios P.O. BOX 1043, 570 03 Ag. Athanasios, Greece 12 0906-CPR-02412008
<p style="text-align: center;">EN 998-2:2010</p> <p><u>Designed</u> general purpose masonry mortar for external use in elements subject to structural requirements</p> <p style="text-align: center;">DoP No.: UNICRET W /1221.2-01</p> <p>Compressive strength: Category M 1 Initial shear strength: 0.15 N/mm² (tab. value) Reaction to fire: Class A1 Density (dry hardened mortar) 1700 kg/m³ Water absorption: 1.4 kg/m²min^{0.5} Water vapor permeability: μ 15/35 (tab. value) Thermal conductivity: (λ_{10,dry}) 0.75 W/mK (tab. mean value; P = 50 %) Durability (against freeze/thaw): evaluation based on provisions valid in the intended place of use of the mortar</p>

ISOMAT S.A.
 BUILDING CHEMICALS AND MORTARS
MAIN OFFICES - FACTORY:
 17th km Thessaloniki - Ag. Athanasios Road,
 P.O. BOX 1043, 570 03 Ag. Athanasios, Greece,
 Tel.: +30 2310 576 000, Fax: +30 2310 576 029
www.isomat.eu e-mail: info@isomat.eu